



## COMMONWEALTH of VIRGINIA

*Department of Health*  
*DIVISION OF SHELLFISH SANITATION*  
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### **EAST RIVER Growing Area # 41 Mathews County Shoreline Sanitary Survey**

**Date:** February 4, 2005

**Survey Period:** September 23, 2004 – January 7, 2005

**Total Number of Properties Surveyed:** 1069

**Surveyed By:** D. R. Beuchelt

#### **SECTION A: GENERAL**

This survey extends from Reference Point 41 at Bay Shore Point to Reference Point 42 at Minter Point and includes the shoreline and all of the tributaries (within a designated boundary line drawn by the Division of Shellfish Sanitation) on the East River located in Mathews County, Virginia. To follow the survey flow, a copy of the 911 map used to locate and record the properties is included. A field number is recorded and highlighted on the 911 map adjacent to the 911 street numbers for about 90% of the properties surveyed. Some of the properties surveyed were without 911 street numbers and are therefore not numbered on the 911 map but they are recorded and numbered with field numbers on the shoreline survey property location sheets.

The topography of the area surveyed begins with an elevation of 5' around the shoreline reaching 10' at the headwaters and 15' further inland and having a maximum elevation of 25' at the approximate location of 37°28'30"N – 76°23'0"W on Route 626.

Meteorological data indicated that a total of 14.2" of precipitation fell during the survey period, with totals of 1.0 " during September 23 – 30, 2004, 3.8" during October 2004, 5.3" during November 2004, 4.10" during December 2004 and 0.0" January 1 to January 7, 2005. It is important to note that on December 26, 2004 a total of 8-11 inches of snow fell on areas of Mathews County with little or no accumulation in the Gloucester area where the rainfall data is recorded for this region.

Wastewater treatment for the Town of Mathews and homes in the surrounding area of the town is provided by the Mathews Treatment Plant located at 89 Brickbat Road, in the Town of Mathews. The facility is a package plant designed to serve a capacity of 100,000 GPD. Since the introduction of ammonia removal requirements, the effective treatment capacity has been reduced to approximately 70,000 GPD.

Any amount over 70,000 GPD increases the risks of failing clarifiers. A copy of the latest Wastewater Facility Inspection Report conducted on March 25, 2004 by Camille S. Cook, Environmental Inspector for DEQ, shows that a warning letter was sent to the Mathews Facility addressing concerns about the operation of the clarifiers, and high doses of sodium bisulfite (two to three times higher than the sodium hypochlorite dose) for chlorination. A copy of the report, letters from DEQ and the Hampton Roads Sanitation Department are included within this report. Also, included is a report printed from the Mathews County web site showing concerns about this same facility. It is important to note that the report makes two important statements. The first is that the plant was installed in 1975 and is now nearing the end of its useful life. The second is the plant is very close to reaching its maximum operating capacity. A Mathews County Sewer Study Committee was appointed by the Board of Supervisors in June 2001 to begin recommendations regarding the future of the wastewater plant. This wastewater treatment plant discharges into Put-In-Creek which is located between, and runs parallel to, routes 14 and 621.

Since the 1997 survey of the East River, secondary septic systems such as the Orenco's AdvanTex Treatment System, the Clearstream Wastewater Treatment System, the Ecoflo and the Puraflo systems have been installed at residences to treat residential strength wastewater in addition to the conventional septic systems. The Advantex, Clearstream and EcoFlow systems remain on a provisional status while the Puroflow is approved for use.

Some of the most current real estate developments are using these systems and share remote drainfields. All the sewage systems need maintenance throughout their life expectancy in order to operate within the regulations that are approved and set by the state of Virginia for the treatment systems, however, the secondary systems require periodic maintenance (every 6 months and up) and electricity in order to function properly. In the case of neglect or a severe storm, such as Isabel back in 2003, these systems could shut down and create potential problems with raw sewage entering into the river and polluting underground water supplies.

Located within the survey boundary is a Virginia Department of Transportation facility. This facility has been coded as IW-D (Industrial Waste-Direct) for two reasons. The first is that a Petroleum leak has occurred here and "the site investigation delineated a plume of ground water and soil contamination with Gasoline range Total Petroleum Hydrocarbons, BTEX, and MTBE around the former sites where tanks have been removed". Site Maps have been attached with this report and reflect where tanks were located, where new tanks are currently located, and where monitoring wells are located.

Employees stated that they began smelling diesel fuel in their drinking water at the VDOT facility as far back as 8 years prior to this survey and expressed their concerns then. A copy of a report from Erin Tisdale, DEQ Investigator, and a copy of paperwork from the VDOT Mathews facility is attached. The second reason that this property is coded IW-D is that a ditch runs along beside the facility and is located within a few feet of where the spill occurred. This ditch is  $\leq 3/10$ ths of a mile from the East River and drains into the headwater of the East River via several

avenues. According to employees at the facility, the water in the ditches has shown an appearance of a Petroleum skim on occasions.

Two properties located on Ridge road (Route 626) are included in the shoreline survey for Area #37 but both have an effect on Area #41 during periods of heavy rainfall. Located 2.4 miles from the intersection of Routes 14 and 626 is a Public-Solid waste Sanitary Landfill, (see final # 11 on Shoreline Sanitary Survey dated March 6, 2002 for Area # 37), which was permanently closed in October of 1993 and located 1.1 miles from the intersection of Routes 14 and 626 is a farm which has at least four horses in the pasture on any given day. The manure is left on the ground. Wastes from these properties have the opportunity to wash into the head waters of the East River via ditches which have been dug by VDOT to help eliminate the flooding problems on route 626 during heavy rainfalls. It has been observed that a steady flow of storm water drains from this location constantly. The worst drainage occurs during peak episodes of heavy rains. A map is included showing the boundary line of growing areas 37 and 41 with these sites noted.

The current restrictions on shellfish harvesting are Condemnation Number 041-005, Condemnation Number 92, and Condemnation Number 041-212. Copies of these notices including maps are attached with this report.

Copies of Hydrographic and Bacteriological data are not required, but are attached. The data covers the period of 10/09/03 to 12/09/04.

This area has experienced major environmental changes since the last survey which was conducted in 1997. Major rainfalls, remnants of hurricanes, and tropical systems have left the area saturated. During September 2003, rains and the remnants of Hurricane Isabel left a total of 9.43 inches of water on the region. Rains and flood waters flooded the shoreline and tributaries to the extent that properties had 2 – 3 ft. of water standing in the yards. The area is still saturated to the point that some ditches are full of water. To intensify this problem is the fact that some of the ditches never drain which causes flooding after heavy precipitation to the point that boundary lines of the adjoining growing areas are no longer in existence. Some ditches are deep which allows rushing waters to the tributaries after a rain storm has passed through the area. During this survey, VDOT was retrenching ditches to relieve areas of high water.

Some homes on the waterfront have been and are currently being elevated on new foundations from 3 to 5 feet higher than originally built. Other homes have been destroyed and abandoned. A few Marinas and docks from the last survey are no longer in existence or are beyond the point of repair.

Information in this report is gathered and used primarily by the Division of Shellfish Sanitation, Virginia Department of Health, in order to fulfill its responsibilities of shellfish growing area supervision and classification. Data in the report is available to other agencies participating in shellfish program activities and other interested parties.

Report copies are provided to the local Health Department for corrective action of deficiencies listed on the summary page in Section B.2. and B.3., and the Department of Environmental Quality, Water Regional Office for possible action at properties listed on the summary page in Section B.1.

This report lists only those properties that have a sanitary deficiency or have other environment significance. ***"DIRECT"*** indicates that the significant activity or deficiency has a direct impact on shellfish waters. Individual field form with full information on properties listed in this report are on file in the Richmond office of the Division of Shellfish Sanitation and are available for reference until superseded by a subsequent survey of the area.

## **SECTION B: SEWAGE POLLUTION SOURCES**

### **SEWAGE TREATMENT FACILITIES**

27. ***DIRECT*** - HRSD - Mathews Courthouse STP, 89 Brickbat Road, Mathews, 23109. Present operating capacity is 70,000 GPD with a design flow of 100,000 GPD. This plant is a package plant, VPDES Permit #VA0028819 in Mathews County. Discharge point is Put-In-Creek on the East River. The sludge is dried, then hauled to the Mathews Convenience Center and finally hauled to the Gloucester landfill.

### **ON-SITE SEWAGE DEFICIENCIES**

5. CONTRIBUTES POLLUTION – 281 Diggs Wharf Road, PO Box 146, Susan, 23163. Dwelling - 1 ½ white wood siding with black roof and black trim. 2 persons. Septic area was covered with plywood with cinder blocks on top. Sanitary Notice issued 09/27/04 to field #46. Tax Map # 39 A 062.
6. CONTRIBUTES POLLUTION – 209 Diggs Wharf Road, PO Box 51, Port Haywood, 23138. Dwelling – 2 story white with black roof and black shutters. No Contact. Effluent to ground surface. Sanitary Notice issued 09/27/04 to field #49. Tax Map # 39 A 060.
7. CONTRIBUTES POLLUTION – 170 Diggs Wharf Road, PO Box 242, Port Haywood, 23138. Dwelling – 2 story white with gray metal roof and green shutters. No Contact. Open septic tank holding grey/septic water. An electric outlet is located beside the tank. Sanitary Notice issued 09/27/04 to field # 51. Tax Map # 39 A 039.
18. CONTRIBUTES POLLUTION, ***DIRECT*** – (Kitchen or Laundry Wastes) - Location: 42 Bertschy Lane, PO Box 35, Mascot, Va. 23108. Dwelling – 1 story white siding with unattached red garage. No Contact. Washing machine is located inside of garage. Wastewater discharges onto ground via a 2 inch PVC pipe. Garage is approximately 300 feet from the watershed. Sanitary Notice issued 10/22/04 to field #247. Tax Map # 29 A 230.

25. NO FACILITIES – Location: 427 Tabernacle Road, Mathews, 23109. Older mobile home white with faded black shutters. No Contact. A 4 inch PVC discharge pipe onto ground surface from the mobile home was found. No evidence of discharge at time of survey. Sanitary Notice issued 10/28/04 to field #333.
28. CONTRIBUTES POLLUTION - 939 Glebe Road, PO Box 14, Mathews 23109. Dwelling – 1 story brick siding with white shutters. No Contact. Rotten plywood is covering an area where sewage is erupting onto ground surface. Sanitary Notice issued on 10/29/04 to field #355. Tax Map # 20 A 121.
29. CONTRIBUTES POLLUTION – ***DIRECT*** - 102 Elsie's Lane, PO Box 1263, Mathews 23109. Dwelling – 1 story yellow with blue shutters. No Contact. Top of septic tank was removed. A 2-inch PVC pipe was immersed down into the septic tank and was draining effluent onto the ground surface < 100 feet from the East River. Sanitary Notice issued 1/01/04 to field #377. Map Tax # 25 A 137.
32. CONTRIBUTES POLLUTION – ***DIRECT*** – Location: 17 Preston Point, Mathews, 23109. Dwelling – 2 story white vinyl siding. No Contact. Effluent is pooling onto ground surface. Sanitary Notice issued 11/05/04 to field #438. \*Repair permit has been approved by MHD.
42. CONTRIBUTES POLLUTION – On E 911 Map of Mathews County this property is assigned the address 17816 John Clayton Memorial Highway, Mathews 23109. c/o R. Morgan, PO Box 14330, Dutton, Va.23050. Dwelling – 2 story white siding with gray shingles. No Contact. Appears unoccupied at time of survey. Area around the septic tank is sunken in. A 4-inch PVC pipe is protruding from under the house and appears to have been hooked into the septic system at one time. Sanitary Notice issued 11/15/04 to field #537. Tax Map # 20 A 079.
44. NO FACILITIES - 17657 John Clayton Memorial Highway, Mathews, 23109. Occupant: St East River Construction. 4 employees. A sewage disposal system operation permit was issued 09/27/93 by the Mathews County Health Department allowing a Sunmar Composting Toilet in the office building. Also permitted is 2-30" well curbings with a sealed bottom to be used as a grease trap for the hand lavatory. This system is still approved according to MHD. No Sanitary Notice issued.
46. CONTRIBUTES POLLUTION – 17431 John Clayton Memorial Highway, PO Box 2, Foster, 23056. Dwelling – 2 story yellow house with red shutters. 4 persons. Septic tanks have unapproved metal/plywood covers. Sanitary Notice issued 11/15/04 to field #544. Tax Map # 15A 01 005.

48. CONTRIBUTES POLLUTION – 17037 John Clayton Memorial Highway, PO BOX96, Foster, 23056. Dwelling – 1 story brick rancher with gray shingles. 1 person. Effluent is floating and pooling on the ground around the septic tank and distribution box. Sanitary Notice issued 11/15/04 to field #554. Tax Map # 15 A 013A.
57. CONTRIBUTES POLLUTION – 115 Ridge Road, PO Box 424, North, 23128. Dwelling – 1 ½ story tan vinyl siding with red shutters, brown shingles and attached garage. No Contact. Evidence of eruption over septic tank and surrounding area. Malfunction is located approximately 300 feet from the ditch with an elevation of 15 feet located on route 626. Sanitary Notice issued 11/22/04 to field #608. Tax Map # 19 A 088B.
60. CONTRIBUTES POLLUTION – 505 Ridge Road, PO Box 97, Foster, 23056. Dwelling – 1 ½ white siding with gray shingles. No Contact. Effluent pooling on top of ground. Toilet paper and feces present. Malfunction is located approximately 75 feet from the ditch with an elevation of 15 feet from route 626. Sanitary Notice issued 11/22/04 to field #619. Tax Map # 14 01 002.
62. NO FACILITIES – 15315 John Clayton Memorial Highway, PO Box 13, Foster, 23056. Post Office – Older building with white wood siding. 2 persons. No facilities. Sanitary Notice issued 11/23/04 to field #632. Tax Map # 19 A 080.
63. CONTRIBUTES POLLUTION – 74 East River Road, PO Box 62, Foster, 23056. Dwelling – Double-wide, brown with green shutters and brown shingles. No Contact. Upon visit on 11/29/04 area over the drainfield was soft with water standing (excessive rainfall during the weekend). A visit back to this location on 11/30/04 found effluent leaching onto the ground surface within 25 feet of the ditch on route 660 at an elevation of 15 feet. Sanitary Notice issued on 11/30/04 to field #637. Tax Map # 19 A 01 001.
73. CONTRIBUTES POLLUTION – Location: Cardinal, 23025. Dwelling – 2 story older home with white wood siding. No Contact. Septic tank top is missing. Currently, two boards are being used to cover the exposed tank. Sanitary Notice issued 12/02/04 to field #734.
80. CONTRIBUTES POLLUTION – 3296 East River Road, PO Box 153, Cardinal, 23025. Dwelling – 2 story light green house. No Contact. Area over septic tank is erupting effluent onto ground surface. Grass is tall over the area. Sanitary Notice issued on 12/09/04 to field #814. Tax Map #29 A 037.
81. CONTRIBUTES POLLUTION – 3406 East River Road, Bohannon, 23021. Dwelling – Beige mobile home with black trim. No Contact. Effluent erupting onto ground surface less than 100 feet of ditch located on route 660 with an elevation of 10 feet. Sanitary Notice issued 12/09/04 to field #819. Tax Map # 29 A 042.

88. CONTRIBUTES POLLUTION – 3756 / 3748 East River Road, Bohannon, 23021. Dwelling – 2 story older house with white siding and red shutters. No Contact. Effluent erupting onto ground. Malfunction is  $\leq$  150 feet from ditch located on route 660. Sanitary Notice issued 12/14/04 to field #886. Tax Map # 29 A 061.
90. NO FACILITIES – ***DIRECT*** – Location: 502 Mill Lane Road, Bohannon, 23021. Occupant: East River Boat Yard, PO Box 666, North, 23128. Marine – repair facility with several piers. No Contact. On-site were 2 privies. One was inaccessible. One was full with water, but not overflowing, and was ready to collapse. Sanitary Notice issued 12/20/04 to field #925. \*\*It is important to note that on 12/28/04, an email was received from the Mathews County Health Department stating that this property has been sold to the County for the development of a boat ramp area. Tax Map # 29 A 135.
91. NO FACILITIES – 4511 East River Road, Bohannon, 23021. Post Office – Small building with white siding and black trim. 1 person. No Facilities. Sanitary Notice issued 12/16/04 to field #939. Tax Map # 29 A 124.
95. CONTRIBUTES POLLUTION - ***DIRECT*** – 563 Myrtle Grove Lane, Bohannon, 23021. Dwelling – Gray wood shingle siding with white trim and black shingle roof. No Contact. Broken PVC drainpipe to septic tank. No signs of discharge at time of survey. Sanitary Notice issued 12/22/04 to field #987. Tax Map # 34 A 131A.
99. NO FACILITIES – Location: 6196 East River Road, Foster, 23056. Mobjack Nurseries. A portable toilet is at this site for use by seasonal workers. The business is currently closed; however the portable toilet is being used and is in need of service. Sanitary Notice issued 01/06/05 field # 1032. Tax Map # 34 B 01 033.

#### POTENTIAL POLLUTION

2. Location: 796 Diggs Wharf Road, Port Haywood, 23138. Dwelling – 2 story yellow vinyl siding with green shutters. No Contact. Grass over drainfield tall and very dark green. Location: 478 Diggs Wharf Road, Port Haywood, 23138. Dwelling – 1 story with white siding, black shutters and gray roof. 2 persons. Area over drainfield soft. No effluent or odor detected.
8. Location: 589 Old House Creek, Port Haywood, 23138. Dwelling – 1 story with white siding and green shutters. No Contact. Yard is overgrown and has old cars, trucks and mowers parked throughout the yard.
9. Location: 3786 New Point Comfort Road, Port Haywood, 23138. Dwelling – 1 ½ story white siding with gray metal roof. No Contact. Front and back yards are full of trash, old mowers, and wood. Back yard was fenced and inaccessible at time of survey.

10. Location: 59 Turpin Lane, Port Haywood, 23138. Dwelling – 1 story with gray siding and white trim. No Contact. Back yard fenced and inaccessible with junked cars and other junk items in both front and back yards.
14. Location: 2929 New Point Comfort Road, Port Haywood, 23138. Dwelling – 2 story with yellow siding and green shutters. No Contact. Unoccupied at time of survey. Yard is full of old vehicles and debris. Privy in rear of house.
16. Location: 626 Poplar Grove Lane, Port Haywood, 23138. Dwelling – 1 story brick with tan shingles and attached garage. No Contact. Yard is covered with debris scattered throughout.
17. Location: 2331 New Point Comfort Highway, Port Haywood, 23138. Dwelling – 1 story white siding. No Contact. Premises were cluttered with old vehicles, lawn mowers, boats, etc.
23. Location: 59 Wm. Small Lane, Mathews, 23109. Dwelling – White stucco siding, light gray roof with black shutters. No Contact. 4-inch clean out PVC pipe does not have a cap. No evidence of discharge onto ground. Sanitary Notice issued 10/27/04 to field #317.
24. Location: 201 Tabernacle Road, Mathews, 23109. Dwelling – 2 story white siding with brown shutters. No Contact. Shoreline Survey in 1997 found kitchen and laundry wastes discharging through an underground pipe to ditch leading to intermittent stream. This pipe is still visible, although no discharge was found at time of present survey. A report received on 12/06.04 from the Mathews Health Dept. states that this violation was corrected in 1997.
26. Location: 458 Tabernacle Road, Mathews, 23109. Dwelling – 1 ½ story yellow with black roof. 3 persons. Kitchen wastewater to privy. No signs of wastes or wastewater on ground. Trash bags were setting outside on ground along with other junk.
37. Location: 271 Bendall Lane, Mathews, 23109. Dwelling – 1 story white cinder block house with brown shingles. No Contact. Junk was lying around premises. Sheds were falling in. House was in need of repair.
38. Location: 278 Bendall Lane, Mathews, 23109. Dwelling – white mobile home with blue shutters. No Contact. Junky appearance. Extensive storm damage to trees. Unable to access yard.
39. Location: 23 Landing Road, PO Box 12, Mathews, 23109. Dwelling – 1 ½ story small white house. No Contact. Unable to access property due to dogs and no trespassing signs. Junk was scattered around premises. Small area in yard appeared questionable.



40. Location: 2159 Church Street, Mathews, 23109. Dwelling – 1 story white siding with black roof and blue shutters. No Contact. A table which housed a sink was found beside a drainage ditch. Although there was no running water to the table, a PVC pipe was set up for discharge from the sink to the ditch. There was no discharge at time of survey. Unsuccessful attempts were made to contact owner. Sanitary Notice issued 12/20/04 to field #533. Tax Map # 20 12 A1.
41. Location: Unknown 911 address, Unknown Owner. Location: Church street (route 611) just before the intersection of routes 611 and 14. Dwelling – 1 story yellow siding with red metal roof and metal chimney. No Contact. Pit privy in rear of house. Home is unlivable but has a working electric meter.
43. Location: 17704 John Clayton Memorial Highway, Mathews, 23109. Dwelling – 1 story older log cabin. No Contact. Area over septic system is saturated with water due to excessive rainfall. This is a summer residence. There was no evidence of recent occupancy at the time of survey.
49. Location: 16644 John Clayton Memorial Highway, Mathews, 23109. Dwelling – 1 story white house with black roof and black shutters. No Contact. White plastic pipe found in last survey still in existence although no evidence of discharge.
53. Location: 15987 John Clayton Memorial Highway, Foster, 23056. Older facility with white wood siding. Small Independent Car Dealership. 1 person. In the rear of the building was installed an XL Sunmar Composting Toilet. Also, on the rear of the property was a wooden privy in good condition. From the appearance of both facilities, it appears they are not being used. No Sanitary Notice issued. Property with field #585 will be under surveillance.
55. Location: 15819 John Clayton Memorial Highway, Foster, 23056. Dwellings- tan mobile home, white with blue trim mobile home, Light blue mobile home, old abandoned house in rear. The yard was overgrown with weeds, tall grass and trees. Debris was scattered around premises. No Sanitary Notice written.
58. Location: 262 Ridge Road, Foster, 23056. Dwelling – 1 story red siding with gray/greenish roof shingles. 2 persons. Ground is soft over septic areas. (The laundry wastes have a separate septic system.) No evidence of effluent. No Sanitary Notice written.
61. Location: 15368 John Clayton Memorial Highway, Mathews, 23109. Dwelling – off white mobile home with brown trim. No Contact. No sign of effluent. Odor was present. Yard was muddy and very soft. Junk and debris scattered around premises. No Sanitary Notice written.

64. Location: 524 East River Road, Foster, 23056. Dwelling – Macedonia Baptist Church. White vinyl siding with black roof. No Contact. Cover to system is cracked. Sanitary Notice written 11/29/04 to field # 641. Tax Map # 19 A 105.
67. Location: 834 Tick Neck Road, Foster, 23056. Dwelling – 1 story Sandy colored brick. No Contact. Junk, debris and old abandoned vehicles were scattered throughout the premises. Unable to walk the property. No Sanitary Notice written.
70. Location: 2034 East River Road, Foster, 23056. Dwelling – 1 story cinder block building with black trim. No Contact. Trash, Junk, old fuel tanks (empty) and old fuel tanks are discarded in rear of building and located within 3 feet of ditch.. No Sanitary Notice written.
71. Location: 306 Cardinal Road, Foster, 23056. Light green mobile home with white and green trim. No Contact. Yard is flooded with water. No odor or evidence of effluent present. No Sanitary Notice written.
72. Location: 23 Long Boat Road, Foster, 23056. Brown mobile home Located on property with white house at 23 Long Boat Road. No Contact. Junk and debris is scattered around the premises. Unable to locate the septic system for this dwelling. Appears to be occupied. No Sanitary Notice written.
75. Location: 2809 East River Road, Foster, 23056. 2 story white siding with black shutters and dark green roof. 1 person. In wet weather, owner states the toilet is slow to empty out after flushing. No Sanitary Notice written.
77. Location: 179 Carey's Lane, Foster, 23056. 2 story older white siding. No Contact. Drainage ditches are dug throughout yard to eliminate water to the foundation. Open ditches have standing water in them. Junk and debris is scattered around the premises. No Sanitary Notice written.
78. Location: 3128 East River Road, Foster, 23056. 1 story green cinder block house with dark green shutters. No Contact. Neighbor said owner died the previous day. Area over the drainfield was soft. Ditches were full of water. No Sanitary Notice written.
79. Location: 28 Brig Way, Foster, 23056. 2 story beige colored siding. No Contact. Junk and debris covers yard. No sign of effluent or odor. No Sanitary Notice written.
82. Location: 149 Mary Jay Lane, Foster, 23056. Lime green mobile home. No Contact. Junk and trash cover entire property including the shore and marsh land. No Sanitary Notice written.

- 83. Location: 282 Osprey Road, Foster, 23056. 1 story white siding with brown shutters and black shingles. No Contact. Yard is overgrown and soft in areas with standing water. No signs of effluent or odor. No Sanitary Notice written.
- 84. Location: 48 Osprey Road, Cardinal, 23025. 1 story gray wood/shingle siding. No Contact. Appears to be vacant. Yard is overgrown with trees and grass. Junk and debris scattered among the trees and weeds. No Sanitary Notice written.
- 92. Location: 151 Rains Lane, Bohannon, 23021. Light gray mobile home with white skirting and white trim. No Contact. Septic tank lid is cracked. Sanitary Notice issued 12/16/04 to field # 946.
- 93. Location: 518 Raines Creek Road, Bohannon, 23021. 2½ story tan siding with white trim and brown shingles. Barn on premises with same exterior. No Contact. Vacant. Trash and junk scattered around premises. Slabs and wood cover yard. No Sanitary Notice written.
- 96. Location: 597 Myrtle Grove Lane, Bohannon, 23021. 1 story yellow siding with brown shingles and brown trim. 3 persons. Yard is overgrown with weeds. Trash and junk cover premises. No Sanitary Notice written.
- 98. Location: 5161 East River Road, Bohannon, 23021. 1 story blue siding with red trim. 1 person. Several storage buildings (pink in color). Yard is full of old vehicles, junk and trash. No Sanitary Notice written.

## **SECTION C: NON-SEWAGE WASTE SITES**

### **INDUSTRIAL WASTES**

- 2. Location: 219 Creekwood Lane, Mathews, 23109. White building with gray metal roof. No Contact. Cars, trucks, boats lawn mowers, many outboard motors at this facility. Appears to be a repair service. Two visits were made, and found no one working at the facility.
- 15. Location: 3748 New Point Comfort Highway, Mathews, 23109. 2 employees. Service center has one 10,000-gallon diesel tank, 2 tanks that houses 10,000 gallons gasoline each, one 4000-gallon gasoline tank, one 2500-gallon kerosene tank, and one above ground tank that houses 2000 gallons off-road diesel with no berm.
- 16. Tatterson Greenhouses, 3662 New Point Comfort Highway, Port Haywood, 23138. Business – retail and wholesale nursery. 4 employees. Two fuel oil tanks above ground. Time-releasing fertilizers are used periodically on plants. Groundwater discharges into ditches on the property.

30. SBH Construction, Inc. 102 Caravel Way, Mathews, 23109. Business – Shoreline Restoration, Excavation and Hauling. 3 persons. One 1000-gallon off-road fuel tank and one 500-gallon gasoline tank both without berms.
33. ***DIRECT*** – Location: 445 Evans Long Road, Mathews, 23109. Dwelling- two story white shingles with black shutters. No Contact. Mounted on the end of the dock is one fuel tank approximately 500 gallons in size. Type of fuel unknown.
34. ***DIRECT*** – Location: 124 Baby Lane, Mathews, 23109. Dwelling – 1 story brick with rust colored shingles. No Contact. One 1000-gallon fuel tank without a berm located < 6 feet from ditch. Ditch is approximately 3/10ths of a mile from the East River.
54. ***DIRECT*** - Virginia Department of Transportation. 15934 Clayton Memorial Highway, Foster, 23056. 11 employees. One 6000-gallon Diesel UST, One 4000-gallon Gasoline UST, one 10000-gallon Asphalt AST, two-drum used oil storage, and chemical storage. This facility has experienced a Petroleum Spill and is currently being monitored by Marshall and Miller Associates. A report from DEQ is included along with other data concerning this issue. This facility is  $\leq 500$  feet from the marsh and ditches of the headwater of the East River.
56. Mathews Salvage Source, 80 Ridge Road, Foster, 23056. Business – Auto salvage behind residence. 2 employees. Approximately 100-150 salvaged vehicles are stored here.
99. ***DIRECT*** – Mobjack Bay Nurseries, Bohannon, 23021. Business – wholesale nursery. During season time releasing fertilizers are used. Groundwater from irrigation drains into a holding pond. Overflow from the pond discharges into the East River via an over flow pipe.

#### **SOLID WASTE DUMPSITES**

51. Mathews Waste Station, 16284 John Clayton, Mathews, 23109. Solid waste transfer of household trash, metal, tires, car batteries, recycled glass and plastic. Oil recycles in 500-gallon collection tank, and 50-100 gallon antifreeze collection tank.

#### **SECTION D: BOATING ACTIVITY**

##### **MARINAS**

87. Location: 382 Heron Point Road, Foster, 23056. No Contact. Private pier 10 moorings. Present at time were 3 pleasure boats < 26'. Electricity and water are available. There are no pump-out facilities available.

90. East River Boat Yard, 502 Mill Lane Road, Bohannon, 23021. PO Box 666, North, 23168. No Contact. Present At time of survey were 2 work boats. Sanitary facilities can not be used. There are no pump-out or dump station facilities at this location. \*Note\* According to Mathews Health Dept., this property has been sold to Mathews County for the development of a boat ramp area.

#### **OTHER PLACES WHERE BOATS ARE MOORED**

20. County of Mathews Land Conservancy, 1039 Williams Wharf Road, Mathews, 23109. Present at time of survey was a Tug boat which is currently used by students of Mathews County. Restroom facilities are available for use. A boat ramp is available for use. There are no pump-out or dump station services provided.
86. Zimmerman Marine, Inc., 59 Heron Point Road, Cardinal, 23025. Box 9602, Cardinal, 23025-9708. 25 employees. This facility is a boat restoration service only. The property houses boats that are in need of repair or reconditioning. There are no other services available to boaters at this location. Sanitary facilities are available to the employees. Included within the restoration operations are a boat ramp, water, electricity, a railway, a dump station and a pump-out station.

#### **UNDER SURVEILLANCE**

14. Poplar Grove Comm. Boat Dock, 265 Poplar Grove Lane, Mathews, 23109. Owner: Poplar grove Assoc., L.P., PO BOX758, Urbanna, 23175. Community pier. No Contact. 7 seasonal slips/moorings. Present at time of survey were 1 work boat and one pleasure boat. There are no other services provided at this location.
22. Town Point Boat Landing, End of route 615, Mathews, 23109. Owner: Mathews County. Municipal boat ramp and pier. No Contact. 4 seasonal slips/moorings. There were no boats present at time of survey. A boat ramp is the only service provided at this location.
33. Location: 445 Evans Long Road, Mathews, 23109. No Contact. There are 3 slips at this location. The only service provided is one fuel tank on the dock which is approximately 500 gallons in size.

#### **SECTION E: CONTRIBUTES ANIMAL POLLUTION**

1. Location: 574 Bar Neck Road, Mathews, 23109. Dwelling – 2 story white siding with red shutters. No Contact. Present at time of survey was 2 horses, 2 goats, 1 dog, and 10 – 15 chickens. Manure is left on the ground surface.

17. ***DIRECT*** – Location: 436 Brighton Lane, Mathews, 23109. Dwelling – 1 story white siding with gray shingles. No Contact. Present at time of survey were 3 horses and 6 dogs. Distance to marsh of East River from barn and kennel is approximately 20 feet. Manure disposal is unknown.
19. ***DIRECT*** – Location: 905 Williams Wharf Road, Mathews, 23109. Owner was leaving on a business trip and did not have the opportunity to talk. Present at time of survey were three horses. Pasture is located 2 feet from ditch that flows into the East River. Manure is left on ground surface.
21. ***DIRECT*** – Location: 387 Town Point Landing, Mathews, 23109. Dwelling – 2 story brick and beige siding with blue shutters and gray shingles. No Contact. Present at time of survey were 2 horses. Pasture is 100 feet from a ditch which discharges into the East River. Manure is left on ground surface.
31. ***DIRECT*** – Location: 430 Thruston Road, Mathews, 23109. Dwelling – 2 story beige siding with blue shutters and blues roof. No Contact. Unknown number of horses. Pasture was 100 feet from the East River with a ditch running through the pasture to the East River. Manure is left on ground surface.
34. ***DIRECT*** – Location: 124 Baby Lane, Mathews, 23109. Dwelling -1 story brick with rust colored shingles. No Contact. Present at time of survey, there were no horses in the pasture of this farm, however, this location is adjacent to 131 Green Lane, which had horses in the pasture. It is likely that the horses frequent both farms. The pasture is located 50 feet from a ditch which feeds to the East River, 3/10ths of a mile away. See final number 35 below. Manure disposal is unknown
35. ***DIRECT*** – Location: 131 Green Lane, Mathews, 23109. Dwelling -1 ½ story white siding with black metal roof. No Contact. Present at Unknown number of horses in stable. Pasture is 3 feet from a ditch which leads to the East River approximately ½ mile away. Manure is left on ground surface.
36. Location: 299 Green Road, Mathews, 23109. Dwelling – 2 story white siding with gray shingles and black shutters. 2 persons. Present at time of survey were 2 horses, 1 colt, 15-18 pigs approximately 1 mile from East River. Manure is left on ground surface.
45. Location: 17542 John Clayton Memorial Highway, Mathews, 23109. Dwelling- 2 story yellow siding with blue shutters and charcoal shingles. No Contact. House is vacant and up for sale. Unknown number of horses, although 3 -4 have been seen in pasture. Manure is left on ground surface.

47. Snead Meadows Farm. Location: Melvin Snead, 17237 Clayton Memorial Highway, North, 23128. Dwelling - brick rancher with blue shutters and gray shingles. 2 persons. Present at time of survey were 7 horses. Manure is left on ground surface.
50. **DIRECT** - Location: 668 Fickle Fen Road, Mathews, 23109. Dwelling – 2 story white siding with black trim. No Contact. Present at time of survey were 3 horses, 3 goats, 15 cows, and 7 calves. Pasture is ½ mile from the East River. Ditches run throughout farm to the river. Manure is left on ground surface.
52. Melvin Snead, 16130 Clayton Memorial Highway, North, 23128. Dwelling - 1 story white siding with black roof. No Contact. Present at time of survey were > 60 beagle dogs. Property is fenced in to allow dogs to run and train. Ditches run throughout the property and drain into roadside ditches which empty into the East River < ½ mile away. Manure is left on ground surface in field and under kennels.
59. Twin Springs Farm, Raymond Shackelford, 494 Ridge Road, Foster, 23056. 1 story white vinyl siding with black shutters. No Contact. Present at time of survey were 20 – 25 hunting dogs (housed in several dog kennels) and 5 cats. Manure was on ground surface in kennels.
65. Location: 525 East River Road, Foster, 23056. 1 story white siding with black shutters. No Contact. Present at time of survey were 40-50 cattle, 20-30 turkeys, 2 dogs and 5 horses. Manure is left on ground surface.
66. **DIRECT** – Location: 209 Store Road, Foster, 23056. Dwelling – 1 story white siding with red barns in yard. No Contact. Present at time of survey were 16 dogs housed in kennels < 50 feet from the East River. Manure was present in the kennels.
68. Willow Oaks Farm. Location: 742 Tick Neck Road, North, 23128. Dwelling – 1 ½ story with white vinyl siding and black roof. No contact. Present at time of survey were 4 cows, 9 sheep, chickens, turkeys, and unknown number of horses. Manure is left on ground surface.
69. Location: 674 Tick Neck Road, Foster, 23056. Dwelling – light brown mobile home. 1 person. Present at time of survey were 12 -15 dogs in a kennel. Kennels are cleaned and wastes are disposed at the Solid Waste Center on Route 14.
74. Location: 2477 East River Road, Foster, 23056. Dwelling – 2 story older home with white siding and black metal roof. 7 persons. Present at time of survey were 10 dogs in kennels. Manure is left on ground surface in kennels.

76. ***DIRECT*** - Location: 244 Providence Road, Cardinal, 23025. Dwelling – brick rancher with dark green shutters and gray roof. No Contact. Present at time of survey were 2 cows, 9 chickens and 2 dogs. Pasture is located < 50 feet from the East River. Manure is left on ground surface.
85. ***DIRECT*** - Location: 594 Hicks Wharf Road, Cardinal, 23025. Dwelling – 2 story brick. 3 persons. Present at time of survey were 4 horses. Pasture is  $\geq$  500 feet from the East River. Manure is left on ground surface.
89. ***DIRECT*** – Location: 4073 East River Road, Foster, 23056. Dwelling - yellow with red roof and white shutters. No Contact. Present at time of survey were 1 horse and 2 sheep. Pasture is  $\leq$  50 feet from the East River. Manure is left on ground surface.
94. ***DIRECT*** – Location: 170 Old Hobday Lane, Bohannon, 23021. Dwelling - 2 story white siding with metal roof and black shutters. No Contact. Present at time of survey were 4 horses. Pasture is < 150 feet from the East River. Manure is left on ground surface.
97. ***DIRECT*** – Location: 656 Myrtle Grove Lane, Bohannon, 23021. Dwelling - 1 ½ brick with gray roof and white trim with blue shutters. 2 persons. Present at time of survey were 4 horses. Pasture is  $\geq$  150 feet from the marsh of the East River. Manure is left on ground surface.
100. ***DIRECT*** – Location: 159 Pine View Drive, Mobjack, 23056. Dwelling - 2 story brick and white siding, slate gray shingles, green shutters and attached garage. 2 persons. Present at time of survey were 3 goats. Pasture is < 50 feet from the East River. Manure is left on ground surface.



## SUMMARY

### AREA # 41 EAST RIVER February 4, 2005

#### SECTION B: SEWAGE POLLUTION SOURCES

##### 1. SEWAGE TREATMENT FACILITIES

1 – DIRECT # 27  
0 – INDIRECT – NONE  
1 – B-1.1 TOTAL

##### 2. ON-SITE SEWAGE DEFICIENCIES

Correction of deficiencies in this section is the responsibility of the local Health department.

3 – CONTRIBUTES POLLUTION, DIRECT - # 29, 32, 95  
14 – CONTRIBUTES POLLUTION, INDIRECT - # 5, 6, 7, 28, 42, 46, 48, 57, 60, 63, 73, 80, 81, 88  
1 – CP (Kitchen or Laundry Wastes), DIRECT - # 18  
0 – CP (Kitchen or Laundry Wastes), INDIRECT – NONE  
1 – NO FACILITIES, DIRECT - # 90  
5 – NO FACILITIES, INDIRECT - # 25, 44, 62, 91, 99  
24 – B.2. TOTAL

##### 3. POTENTIAL POLLUTION

Periodic surveillance of these properties will be maintained to determine any status change.

38 - POTENTIAL POLLUTION - # 2, 4, 8, 9, 10, 14, 16, 17, 23, 24, 26, 37, 38, 39, 40, 41, 43, 49, 53, 55, 58, 61, 64, 67, 70, 71, 72, 75, 77, 78, 79, 82, 83, 84, 92, 93, 96, 98

#### SECTION C: NON-SEWAGE WASTE SITES

##### 1. INDUSTRIAL WASTE SITES

4 – DIRECT - # 33, 34, 54, 99  
5 – INDIRECT - # 3, 11, 12, 30, 56  
9 – C.1. TOTAL

##### 2. SOLID WASTE SITES

0 – NONE  
1 – INDIRECT - # 51  
1 – C.2. TOTAL

#### SECTION D: BOATING ACTIVITY

2 – MARINAS - # 87, 90  
2 – OTHER PLACES WHERE BOATS ARE MOORED - # 20, 86  
3 – UNDER SURVEILLANCE - # 15, 22, 33  
7 – D. TOTAL

#### SECTION E: CONTRIBUTES ANIMAL POLLUTION

14 – DIRECT - # 13, 19, 21, 31, 34, 35, 50, 66, 76, 85, 89, 94, 97, 100  
10 – INDIRECT - # 1, 36, 45, 47, 52, 59, 65, 68, 69, 74  
24 – E. TOTAL



